

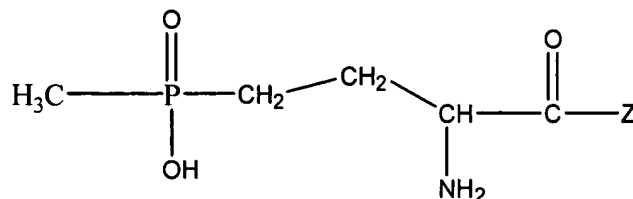
IN THE CLAIMS:

Claims 1-15 (Canceled)

16 (Currently Amended): A method for controlling harmful plants in maize crops in an area under cultivation which comprises applying an effective amount of a herbicidal combination to the harmful plants, seeds of the maize crops or the area or the area under cultivation, wherein said herbicidal combination comprises a synergistically effective amount of

(A) one or more broad-spectrum herbicides selected from the group consisting of

(A1) compounds of the formula (A1),

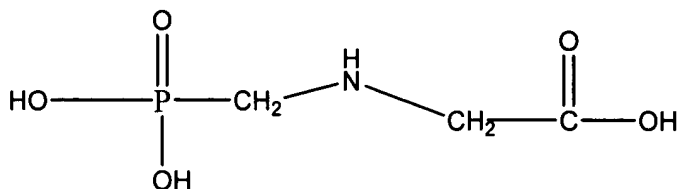


(A1)

in which Z is a radical of the formula $-\text{OH}$ or a peptide radical of the formula $-\text{NHCH}(\text{CH}_3)\text{CONHCH}(\text{CH}_3)\text{COOH}$ or

$-\text{NHCH}(\text{CH}_3)\text{CONHCH}[\text{CH}_2\text{CH}(\text{CH}_3)_2]\text{COOH}$, and their esters and salts and other phosphinothricin derivatives,

(A2) compounds of the formula (A2) and their esters and salts,



(A2)

(A3) imidazolinones and salts thereof,

(A4) herbicidal azoles from the protoporphyrinogen-oxidase (PPO-inhibitors) and the PPO-inhibitor WC9717

(A5) cyclohexanedione oxime herbicides and,

(A6) heteroaryloxyphenoxypropionic acid herbicides,
and

(B) one or more herbicides selected from the group consisting of

(B1) herbicides selected from the group consisting of cyanazine, atrazine, terbutylazine, acetochlor, metolachlor, alachlor, terbutryn, benoxacor, nicosulfuron, rimsulfuron, primisulfuron, dimethenamid, fluthiamide, sulcotrione, simazine, mesotrione and pentoxamid;

(B2) herbicides selected from the group consisting of pendimethalin, pyridate, iodosulfuron, metosulam, isoxaflutole, metribuzin, cloransulam, flumetsulam, linuron, florasulam and isoxachlortole; and

(B3) herbicides selected from the group consisting of bromoxynil, dicamba, 2,4-D, clopyralid, prosulfuron, thifensulfuron, carfentrazone, tritosulfuron (Lab271272), MCPA, halosulfuron, diflufenzopyr and sulfosulfuron

or, where applicable, ester or salts of these herbicides

and, optionally one or more safeners

wherein the maize crops are tolerant to the herbicides (A) and (B) which form a constituent of the combination, with the exception of the method where the herbicide combination comprises the combination of

(a) — ~~(A3) imidazolinones and (B) dicamba, bromoxynil, metolachlor, pyridate, primisulfuron, prosulfuron, nicosulfuron, acetochlor or pendimethalin~~

(b) — ~~(B) iodosulfuron and (A1) glufosinate, (A2) glyphosate or (A3.3) imazamethabenz,~~

(c) — ~~(B) metolachlor and (A1) glufosinate, (A2) glyphosate or (A,5) sethoxydim.~~

(a) the combination (A1) glufosinate and (B) atrazine, simazine, terbutylazine, terbutryn, acetochlor, metolachlor, dicamba, pyridate, pendimethalin,

dimethenamide, primisulfuron, prosulfuron, nicosulfuron, iodosulfuron,
isoxaflutole, flumetsulam, bromoxynil or clopyralid,

(b) the combination (A2) glyphosate and (B) atrazine, sim5azine, terbuthylazine,
terbutryn, acetochlor, metolachlor, dicamba, pyridate, dimethenamide,
primisulfuron, iodosulfuron and prosulfuron,

(c) the combination (A3) imidazolinone and (B) dicamba, bromoxnil, metolachlor,
pyridate, primisulfuron, prosulfuron, nicosulfuron, acetochlor or pendimethalin or
the combination (A3) imazamethabenz and (B) iodosulfuron,

(d) (A5) sethoxydim and (B) acetochlor, metolachlor or nicosulfuron.

17 (Previously Amended): The method as claimed in claim 16, wherein the (A) herbicides are selected from the group consisting of

- (A1.1) glufosinate acid
- (A1.2) glufosinate-monoammonium salt,
- (A1.3) L-glufosinate
- (A1.4) L-glufosinate monoammonium salt,
- (A1.5) bialaphos (or bilanafos) or its sodium salt.
- (A2.1) glyphosate acid,
- (A2.2) glyphosate-monoisopropylammonium salt,
- (A2.3) glyphosate-sodium salt,
- (A2.4) sulfosate,
- (A3.1) imazapyr and its salts and esters,
- (A3.2) imazethapyr and its salts and esters,
- (A3.3) imazamethabenz and its salts and esters,

- (A3.4) imazamethabenz-methyl,
- (A3.5) imazamox and its salts and esters,
- (A3.6) imazaquin and its salts and esters,
- (A3.7) imazapic (AC 263,222) and its salts and esters,
- (A4.1) pyraflufen and its esters,
- (A4.2) carfentrazone and its esters,
- (A4.3) oxadiargyl
- (A4.4) sulfentrazone
- (A4.5) WC9717,
- (A5.1) sethoxydim
- (A5.2) cycloxydim
- (A5.3) clethodim,
- (A5.4) clefoxidim, and
- (A5.5) tralkoxydim.

18 (Previously Added): The method as claimed in claim 16, wherein the herbicide (A) is glufosinate-ammonium.

19 (Previously Added): The method as claimed in claim 16, wherein the herbicide (A) is glyphosate-isopropylammonium.

20 (Currently Amended): The method as claimed in claim 16, wherein herbicide (B) is one or more herbicides selected from the group consisting of

(B1) herbicides selected from the group consisting of cyanazine, atrazin, terbutylazine, acetochlor, metolachlor, alachlor, terbutryn, benoxacor, nicosulfuron,

rimsulfuron, primisulfuron, dimethenamid, fluthiamide, sulcotrione, simazine, mesotrione and penthoxamid,

(B2) herbicides selected from the group consisting of pendimethalin, pyridate, iodosulfuron, metosulam, isoxaflutole, metribuzin, cloransulam, flumetsulam, linuron, florasulam and isoxachlortole; and

(B3) herbicides selected from the group consisting of bromoxynil, dicamba, 2,4-D, clopyralid, prosulfuron, thifensulfuron, carfentrazone, tritosulfuron (Lab271272), MCPA, halosulfuron, diflufenzopyr and sulfosulfuron.

or, where applicable, ester or salts of these herbicides

and, optionally one or more safeners

wherein the maize crops are tolerant to the herbicides (A) and (B) which form a constituent of the combination, with the exception of the method where the herbicide combination comprises

(a) the combination (A1) glufosinate and (B) atrazine, simazine, terbuthylazine, terbutryn, acetochlor, metolachlor, dicamba, pyridate, pendimethalin, dimethenamide, primisulfuron, prosulfuron, nicosulfuron, iodosulfuron, isoxaflutole, flumetsulam, bromoxynil or clopyralid,

- (b) the combination (A2) glyphosate and (B) atrazine, simazine, terbuthylazine, terbutryn, acetochlor, metolachlor, dicamba, pyridate, dimethenamide, primisulfuron, iodosulfuron and prosulfuron,
- (c) the combination (A3) imidazolinone and (B) dicamba, bromoxnil, metolachlor, pyridate, primisulfuron, prosulfuron, nicosulfuron, acetochlor or pendimethalin or the combination (A3) imazamethabenz and (B) iodosulfuron,
- (d) (A5) sethoxydim and (B) acetochlor, metolachlor or nicosulfuron.

21 (Canceled)

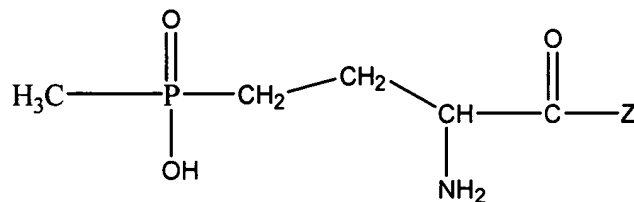
22 (Previously Added): The method as claimed in claim 16 wherein the herbicidal combination comprises glufosinate-ammonium and a herbicide selected from the group consisting of dicamba, atrazine, sulcotrione, bromoxynil, clopyralid, isoxaflutole, pendimethalin, alachlor, thifensulfuron-methyl, flumetsulam, tritosulfuron and fluthiamide.

23 (Previously Added): The method as claimed in claim 16, wherein the herbicidal combination comprises glyphosate-isopropylamine and one or more herbicides selected from the group consisting of 2,4-D, MCPA, pyridate and dimethenamid.

24 (Currently Amended): A herbicidal composition comprising a herbicidal combination comprising:

- (A) one or more broad spectrum herbicides selected from the group consisting of:

(A1) compounds of the formula (A1),

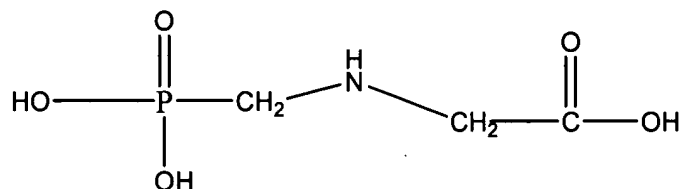


(A1)

in which Z is a radical of the formula $-\text{OH}$ or a peptide radical of the formula $-\text{NHCH}(\text{CH}_3)\text{CONHCH}(\text{CH}_3)\text{COOH}$ or

$-\text{NHCH}(\text{CH}_3)\text{CONHCH}[\text{CH}_2\text{CH}(\text{CH}_3)_2]\text{COOH}$, and their esters and salts and other phosphinothricin derivatives,

(A2) compounds of the formula (A2) and their esters and salts,



(A2)

(A3) imidazolinones and salts thereof,

(A4) herbicidal azoles from the protoporphyrinogen-oxidase (PPO-inhibitors) and the PPO-inhibitor WC9717

(A5) cyclohexanedione oxime herbicides and,

(A6) heteroaryloxyphenoxypropionic acid herbicides

(B) one or more herbicides selected from the group consisting of:

(B1) herbicides selected from the group consisting of cyanazine, atrazine, terbuthylazine, acetochlor, metolachlor, alachlor, terbutryn, benoxacor, nicosulfuron, rimsulfuron, primisulfuron, dimethenamid, fluthiamide, sulcotrione, simazine, mesotrione and pentoxamid;

(B2) herbicides selected from the group consisting of pendimethalin, pyridate, iodosulfuron, metosulam, isoxaflutole, metribuzin, cloransulam, flumetsulam, linuron, florasulam and isoxachlortole; and

(B3) herbicides selected from the group consisting of bromoxynil, dicamba, 2,4-D, clopyralid, prosulfuron, thifensulfuron, carfentrazone, tritosulfuron (Lab271272), MCPA, halosulfuron, diflufenzopyr and sulfosulfuron

with the exception of herbicidal combinations which comprise

~~(a) (A3) imidazolinones and (B) dicamba, bromoxynil, metolachlor, pyridate, primisulfuron, prosulfuron, nicosulfuron, acetochlor or pendimethalin~~

~~(b) (B) iodosulfuron and (A1) glufosinate, (A2) glyphosate or (A3.3) imazamethabenz,~~

- (e) ~~(B) metolachlor and (A1) glufosinate, (A2) glyphosate or (A,5) sethoxydim~~
- (a) the combination (A1) glufosinate and (B) atrazine, simazine, terbuthylazine, terbutryn, acetochlor, metolachlor, dicamba, pyridate, pendimethalin, dimethenamide, primisulfuron, prosulfuron, nicosulfuron, iodosulfuron, isoxaflutole, flumetsulam, bromoxynil or clopyralid,
- (b) the combination (A2) glyphosate and (B) atrazine, simazine, terbuthylazine, terbutryn, acetochlor, metolachlor, dicamba, pyridate, dimethenamide, primisulfuron, iodosulfuron and prosulfuron,
- (c) the combination (A3) imidazolinone and (B) dicamba, bromoxynil, metolachlor, pyridate, primisulfuron, prosulfuron, nicosulfuron, acetochlor or pendimethalin or the combination (A3) imazamethabenz and (B) iodosulfuron,
- (d) (A5) sethoxydim and (B) acetochlor, metolachlor or nicosulfuron

and, optionally, one or more adjuvants and/or formulation auxiliaries.

25 (Previously Added): The herbicidal composition as claimed in claim 24, wherein the (A) herbicides are selected from the group consisting of

- (A1.1) glufosinate acid
- (A1.2) glufosinate-monoammonium salt,
- (A1.3) L-glufosinate,
- (A1.4) L-glufosinate monoammonium salt,
- (A1.5) bialaphos (or bilanafos) or its sodium salt,
- (A2.1) glyphosate-monoisopropylammonium salt,

- (A2.2) glyphosate-monoisopropylammonium salt,
- (A2.3) glyphosate-sodium salt,
- (A2.4) sulfosate,
- (A3.1) imazapyr and its salts and esters,
- (A3.2) imazethapyr and its salts and esters,
- (A3.3) imazamethabenz and its salts and esters,
- (A3.4) imazamethabenz-methyl,
- (A3.5) imazamox and its salts and esters,
- (A3.6) imazaquin and its salts and esters,
- (A3.7) imazapic (AC 263,222) and its salts and esters,
- (A4.1) pyraflufen and its esters, such a pyraflufen-ethyl,
- (A4.2) carfentrazone and its esters, such as carfentrazone-ethyl,
- (A4.3) oxadiargyl
- (A4.4) sulfentrazone,
- (A4.5) WC9717,
- (A5.1) sethoxydim
- (A5.2) cycloxydim
- (A5.3) clethodim,
- (A5.4) aclefoxydim, and
- (A5.5) tralkoxydim.

26 (Previously Added): The herbicidal composition as claimed in claim 25, wherein the herbicide (A) in the herbicide combination is glufosinate-ammonium.

27 (Previously Added): The herbicidal composition as claimed in claim 25, wherein the herbicide (A) in the herbicidal combination is glyphosate-isopropylammonium.

28 (Cancelled)

29 (Previously Added): The herbicidal composition as claimed in claim 25, wherein the herbicidal combination further comprises other crop protection active ingredients.

30 (Previously Added): The herbicidal composition as claimed in claim 25, wherein the herbicidal combination contains adjuvants and formulation auxiliaries.

31 (Previously Added): The herbicidal composition as claimed in claim 26, wherein the herbicidal combination further comprises other crop protection active ingredients.

32 (Previously Added): The herbicidal composition as claimed in claim 26, wherein the herbicidal combination comprises adjuvants and formulation auxiliaries.

33 (Previously Added): The herbicidal composition as claimed in claim 27, wherein the herbicidal combination comprises other crop protection active ingredients.

34 (Previously Added): The herbicidal composition as claimed in claim 27, wherein the herbicidal combination contains adjuvants and formulation auxiliaries.

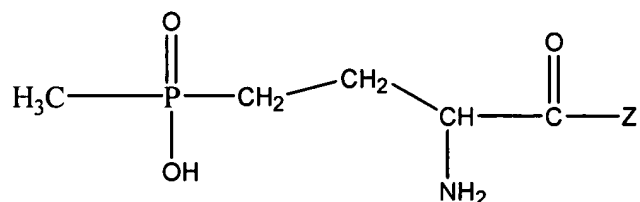
35 (Cancelled)

36 (Cancelled)

37 (Previously Amended): The herbicidal composition as claimed in claim 24, wherein the herbicidal combination comprises glufosinate-ammonium and a herbicide selected from the group consisting of sulcotrione, alachlor, thiensulfuron-methyl, tritosulfuron, and fluthiamide.

38 (Previously Added): The herbicidal composition as claimed in claim 24 wherein the herbicidal combination comprises glyphosate-isopropylammonium and a herbicide selected from the group consisting of 2,4,D,MCPA.

39 (Previously Added): A method for controlling harmful plants in maize crops which comprises applying an effective amount of a herbicide combination to the plants, seed of the plants or the area under cultivation, wherein the herbicide combination comprises a synergistically effective amount of compounds of the formula (A1),



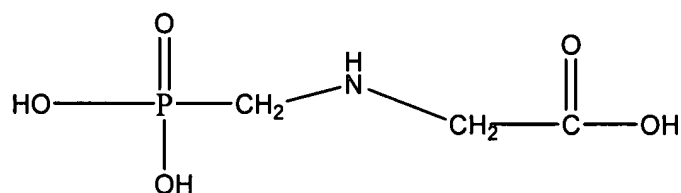
(A1)

in which Z is a radical of the formula -OH or a peptide radical of the formula -NHCH(CH₃)CONHCH(CH₃)COOH or -NHCH(CH₃)CONHCH[CH₂CH(CH₃)₂]COOH, and their esters and salts and other phosphinothricin derivatives, and

a herbicide (B) selected from the group consisting of mesotrione, sulcotrione, alachlor, thifensulfuron-methyl, tritosulfuron and fluthiamide,

and wherein the maize crops are tolerant to the herbicides (A1) and (B) which form a constituent of the combination, if appropriate in the presence of safeners.

40 (Previously Added): A method for controlling harmful plants in maize crops which comprises applying an effective amount of a herbicide combination to the plants, seed of the plants or the area under cultivation, wherein the herbicide combination comprises a synergistically effective amount of compounds of the formula (A2),



(A2)

and their esters and salts, and

a herbicide (B) selected from the group consisting of mesotrione, 2,4-D and MCPA,

and wherein the maize crops are tolerant to the herbicides (A1) and (B) which form a constituent of the combination, if appropriate in the presence of safeners.

41 (New) A herbicidal composition comprising a herbicidal combination comprising:

A) glufosinate-ammonium and B) mesotrione

and, optionally, one or more crop protection active ingredients, one or more adjuvants and/or one or more formulation auxiliaries.

42 (New) A method for controlling harmful plants in maize crops in an area under cultivation which comprises applying an effective amount of a herbicidal combination as claimed in claim 41 to the harmful plants, seeds of maize crops or the area or the area under cultivation.